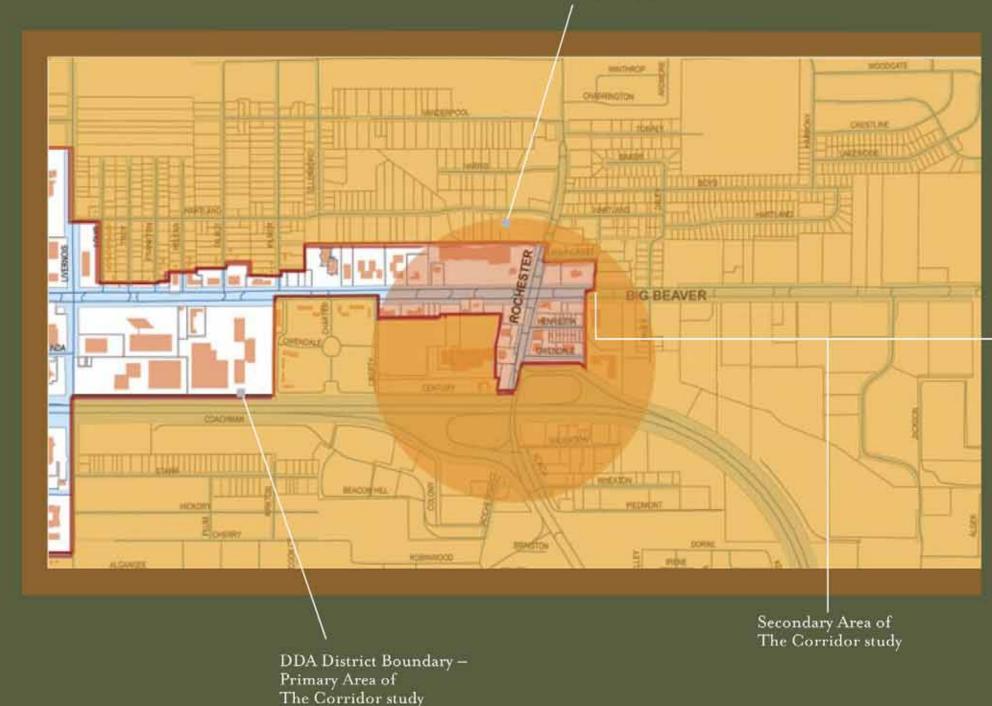


This is "The Corridor"



Adams to Dequindre (6 miles)

1-75 Gateway Interchange at Rochester Road



Inventory and Analysis

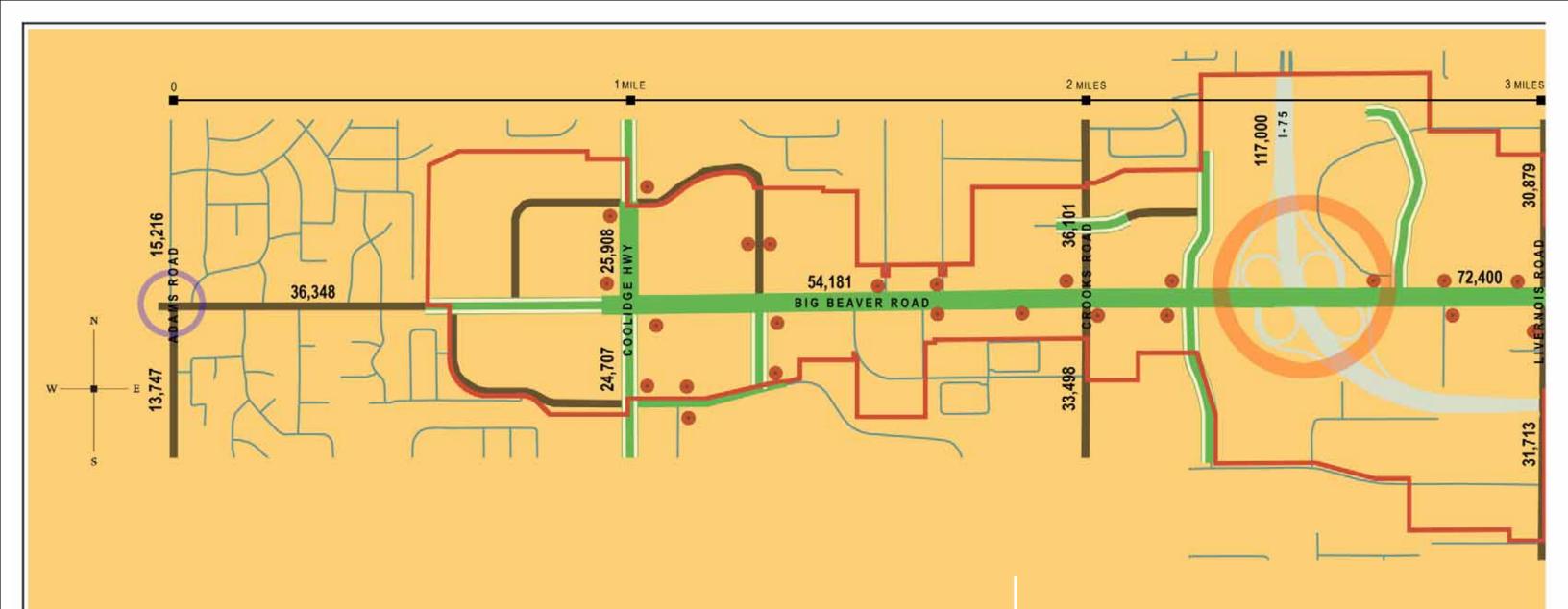
The Big Beaver Corridor is a major east-west thoroughfare that runs through Oakland County and connects the City of Troy with Macomb County to the east and Woodward Avenue, Bloomfield Township and Birmingham to the west.

The Big Beaver Corridor Study Area includes a primary study area that matches the boundaries of the Downtown Development Authority (DDA) District and a secondary area that extends to complete the six mile segment along Big Beaver Road from Adams Road to Dequindre Road. Also included are intersections with major thoroughfares such as Coolidge, Crooks, Livernois, Rochester and John R, as well as intersections with a number of collector and local streets within the Corridor.

The following is an inventory of Corridor components for Analysis from which conclusion are offered in the following pages.

- Corridor, streets and traffic
- Pedestrian circulation
- Lighting, landscape and maintenance
- Driveway access
- Parking
- General land use
- Buildings and the Public Space

The Big Beaver Corridor represents a one of a kind premier district in the region but as will be revealed, its suburban planning and development principles severely limit its ultimate potential. 3 miles



Corridor, Streets and Traffic

Excellent connector and collector traffic systems define the Corridor as primarily an automobile dominated world.









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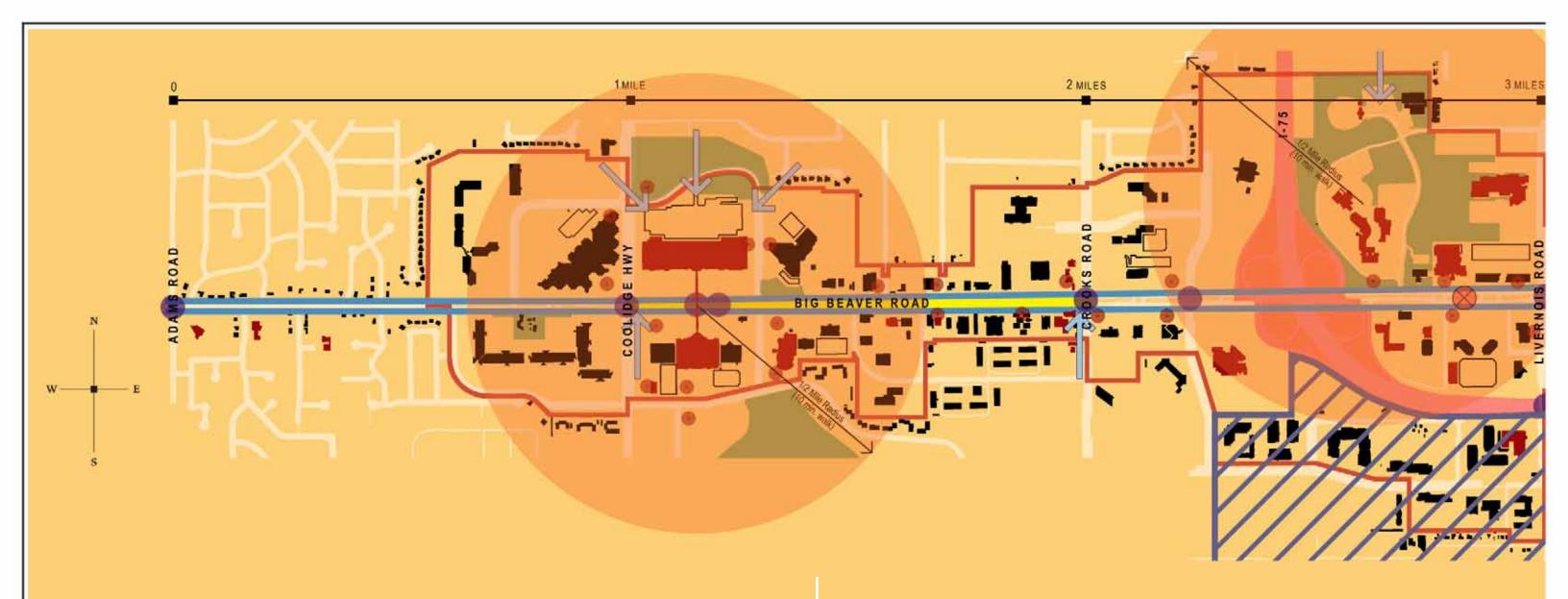


- Traffic volumes on Big Beaver range between 36,000 and 73,000 vehicles per day and are comparable to those along Woodward Avenue through Birmingham, which carries an average of 67,800 vehicles per day.
- As a 6-lane boulevard, Big Beaver Road is designed to function at an acceptable level of service with a traffic volume of 45,000 vehicles per day (level of service degrades as volumes increase).
- The boulevard cross-section of Big Beaver reduces potential conflicts between vehicles by restricting left turning movements. (see image A)
- The intersection of Rochester and Big Beaver Roads is the single most heavily traveled point within the Corridor. (see image B)
- For many visitors, the gateways represent the first impression of the City and the Corridor.
- The I-75 Freeway bisects the Corridor and creates a significant physical and visual barrier. (see image C)
- Bus stops are located primarily between Coolidge and Livernois and lack pedestrian amenities such as shelters and benches. (see image D)

Conclusions

- Traffic volumes along Big Beaver create opportunities for retail and restaurant uses in the Corridor.
- Traffic management will be a challenge as development intensity increases along the Corridor.
- There is significant opportunity for enhancement of the Big Beaver Corridor and gateways.

DDA Boundary Bus Stop 2 Lane Road 2 Lane Boulevard 4 Lane Road 4 Lane Boulevard 6 Lane Road 6 Lane Boulevard Interstate (I-75) Major Corridor Gateway Minor Corridor Gateway Daily Traffic (source: City of Troy Engineering Dept.)



Pedestrian Circulation Pedestrians out for a stroll is not an experiential feature of the Corridor













- The Corridor is primarily designed to service the automobile.
- Pedestrian circulation is largely confined to commercial nodes that offer destination uses - i.e. shopping, services, restaurants and hotels (primarily within a half mile walking distance)
- The majority of the pedestrian activity is within the "primary pedestrian use zone" where quality destinations exist and are of the highest density and proximity.
- Marked pedestrian crossings area very limited (approximately 9 locations)
 almost one mile apart in some locations. This greatly restricts pedestrian
 interconnection between north and south sides of the Corridor, and results
 in pedestrians dangerously crossing in unmarked areas.
- Above grade (bridge) crossing at the Somerset Collection very effectively and safely facilitates pedestrian Corridor crossing. The all-weather protection aspect of the bridge enhances usability.

Conclusions

- Pedestrian activity is minimal due to lack of residential or mixed uses along or directly adjacent to the Corridor.
- Increasing the number and disbursement of destinations along the Corridor will encourage pedestrian traffic throughout.
- Lack of interconnection between uses and destinations greatly impacts pedestrian activity.

LEGEND:

DDA Boundary
Primary Pedestrian Destinations (i.e. shopping restaurants, services, hotels, civic, churches, clubs)
Primary Pedestrian Use / Activity

Pedestrian Barrier / Restrictor

Pedestrian Isolated Area (with limited access to comdon)

Open Space / Recreation Areas

Cornidor Sidewalks

Pedestrian Crossing Locations

1/2 Mile Walking Distance

Primary Pedestrian Influence (adjacent residential uses)



Bus Stop Locations

Sidewalks within the Big Beaver Corridor are generally well maintained; however, there are examples throughout the study area of overgrown bushes and untrimmed trees that detract from the pedestrian experience and discourage foot traffic.





Despite the landscaped median and right-of-ways, excess signage and lighting reduce visual quality along the Corridor.

One of the most noticeable characteristics is the automobile dominant nature of the Corridor. Currently, Big Beaver Road functions as a high speed thoroughfare, rather than a pedestrian-friendly city core.



Lighting, Landscape and Maintenance

Efficient and practical, missing an opportunity to add character and interest to the corridor









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Light fixtures along the Corridor are the largest and most visually dominant feature, and provide no architectural contribution to the character of the Corridor.

The narrow, columnar trees separating the traffic lanes from the sidewalk provide little enclosure for pedestrians. Larger canopy trees would offer the pedestrian a visual and spatial feeling of separation from the nearby traffic.





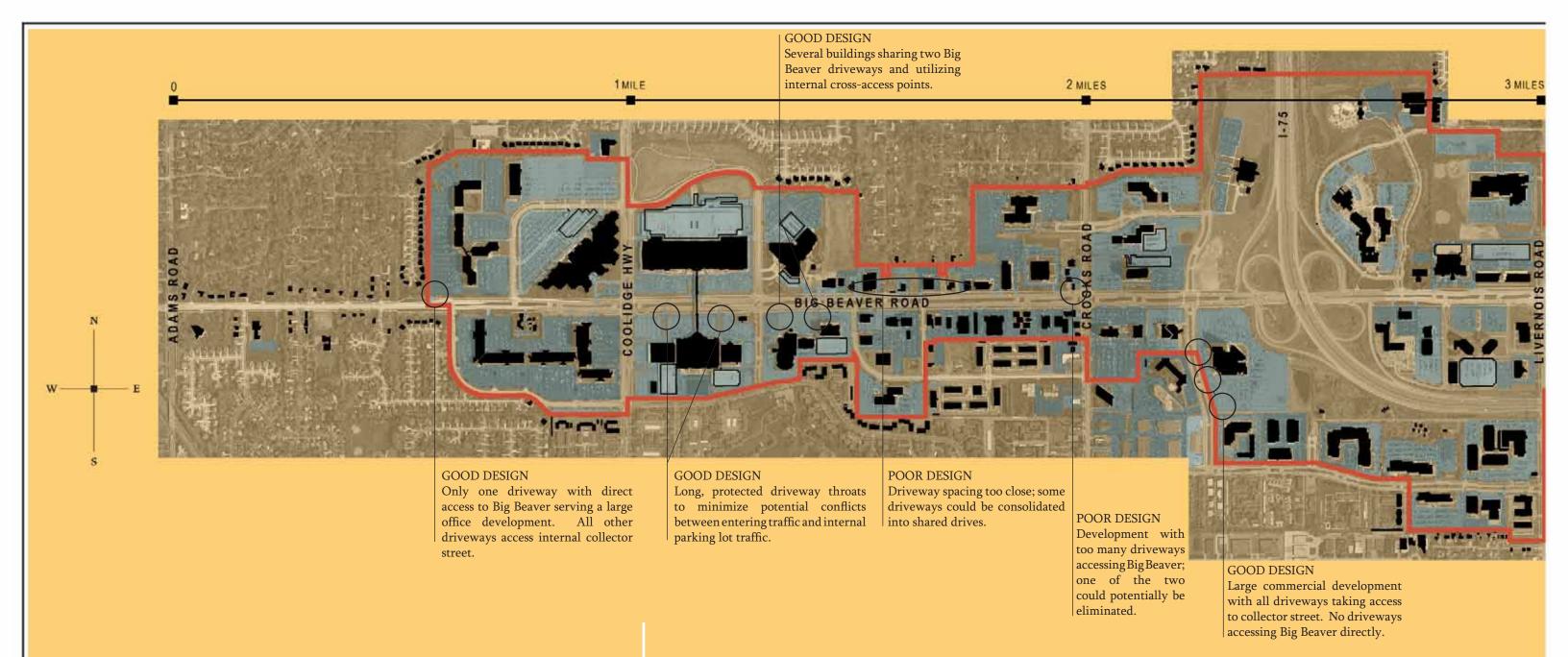
The heavily landscaped median breaks up the expanse of Big Beaver's six lanes of traffic and gives the roadway an attractive suburban appearance. This manicured and maintained boulevard evidences the importance of this Corridor within the City of Troy and the surrounding region.

Analysis

- Attractive and well maintained landscaping throughout the Corridor illustrates
 a sense of pride among property owners. Perennial and annual beds create
 beautiful displays of color, while hedgerows shield parking areas from public
 view. (see image A)
- While pavers mark crosswalk locations for pedestrians along the sidewalk, some crosswalk markings within the roadway require attention and are evidence of an automobile-dominated Corridor. (see image B)
- Areas of the median that are substantially crowned help reduce visual distractions from oncoming traffic. (see image C)
- Existing pole lighting's physical size and style lack human scale, reinforce the highway image and visual dominate the Big Beaver Corridor. (see image D)
- Decorative sidewalk pavers are used along Big Beaver to designate bus stops and crosswalk locations. While the use of pavers generally enhances the streetscape and pedestrian experience, many of these areas are in need of improvement. Amenities, such as plantings and decorative tree gates, must be maintained and replaced when necessary. (see image E)

Conclusions

- The use of human-scaled pole lighting will improve the character and scale of the Corridor and substantially transform and improve the pedestrian character.
- While privately landscaped areas are generally well maintained,
 Corridor landscape design guidelines can help produce more unified site appearance.
- While maintenance is generally good throughout the Corridor, a well enforced maintenance ordinance will ensure a consistently positive image of the site.



Driveway Access

Managing highway traffic and property access issues is a planning priority

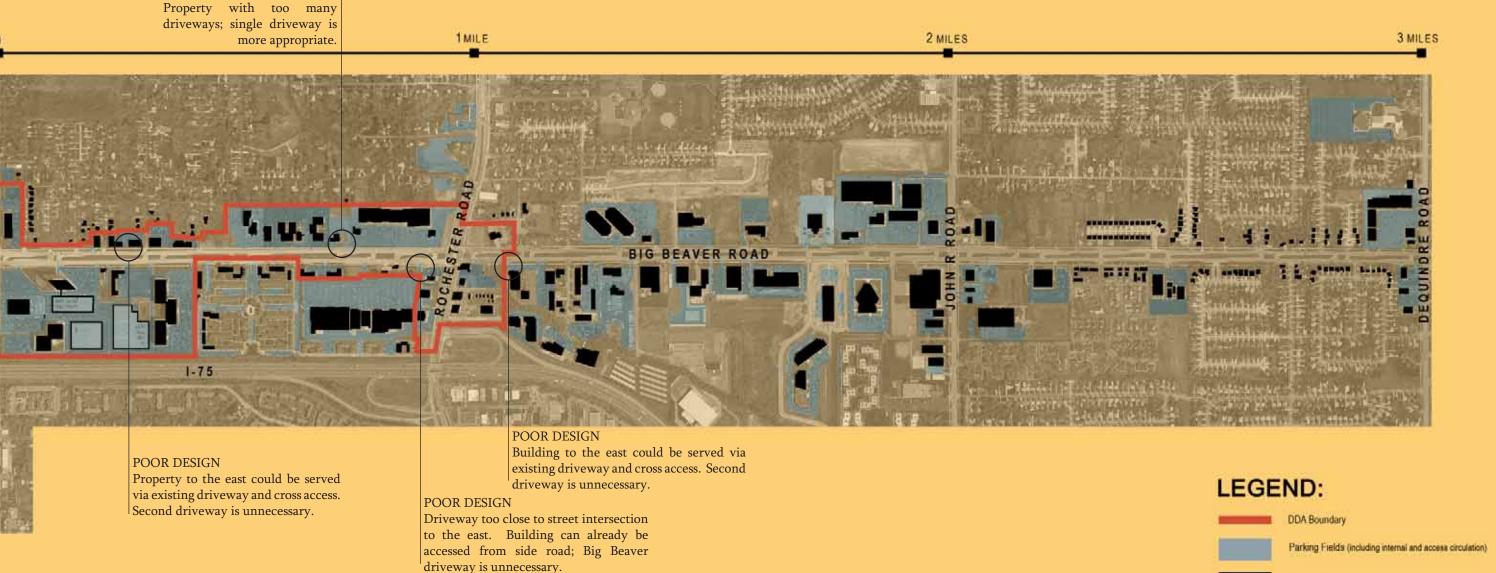








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- There are many examples of commercial properties with an excessive number of driveways, insufficient spacing between driveways, and driveways situated too close to an intersection. These situations can impact traffic safety and interfere with pedestrian and bicycle movements through the corridor. (see images A and B)

POOR DESIGN

- Wayfinding, or the use of directional signs, is very limited along the Corridor. If a sign provides too many "chunks" of information, it increases the amount of time necessary for driver comprehension. (see image C)
- There are several collector streets within the Corridor (e.g., Cunningham, Golfview, Lakeview, Wilshire, Troy Center) that provide access to large commercial developments and minimize driveways onto Big Beaver and other major roads. (see image D)

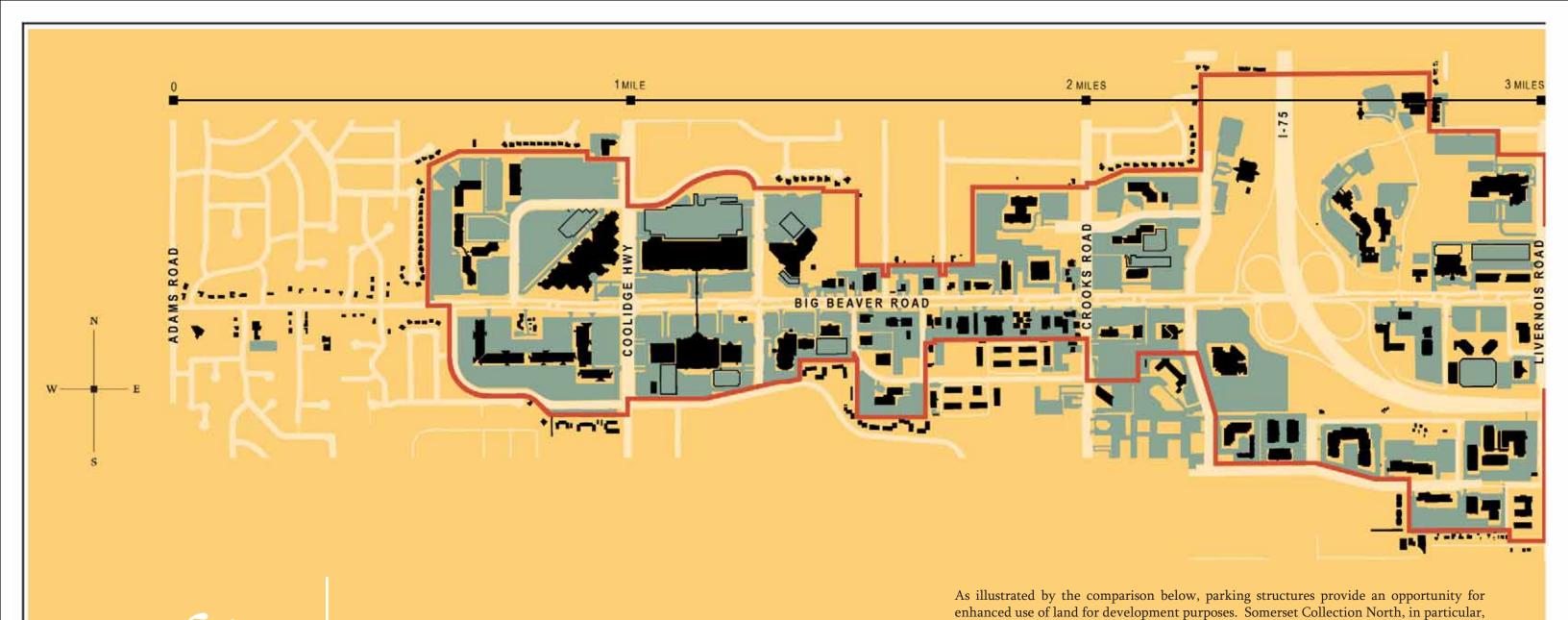
Conclusions

- There is significant opportunity for improved property access within the Corridor.
- Property access and driveway location will continue to be a challenge as development intensity increases along the Corridor.
- A planned system of collector and local streets, as well as private internal access drives, will be important to the success of Big Beaver as a mixed use urban center.

Parking Decks



Building Masses



Parking

The prominent land use component of the Corridor



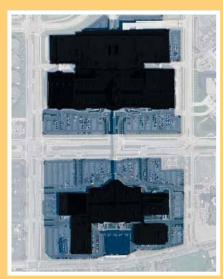




12 Oaks Mall, Novi (surface parking only)

Approx. 102 acres of surface parking and access

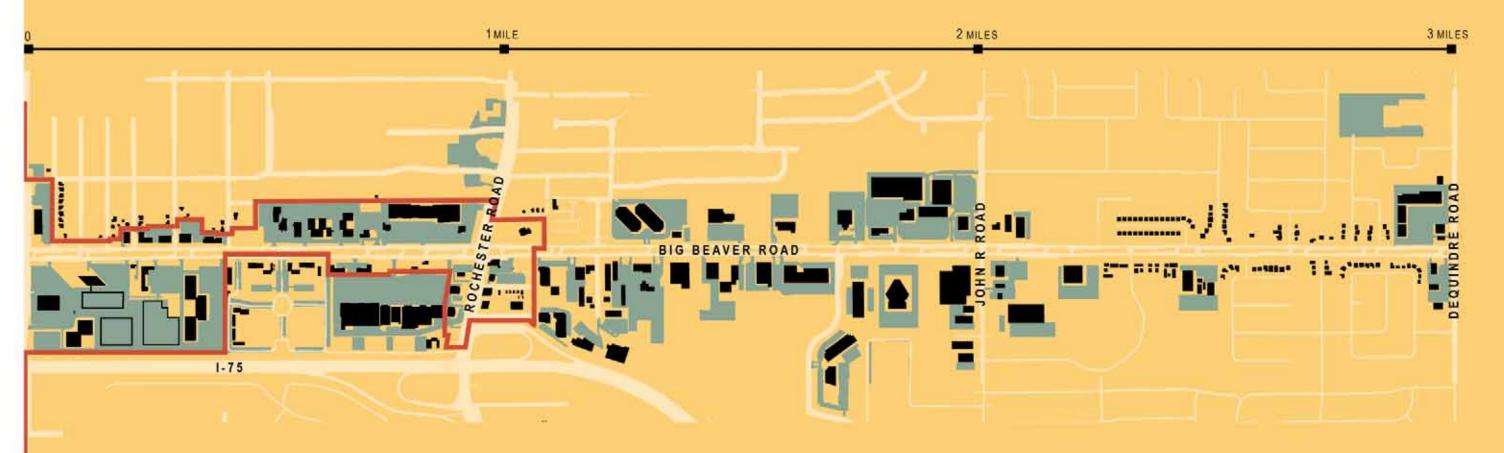
needs within a structure.



maximizes building area on the site by accommodating a substantial majority of the parking

Somerset Collection (parking structures and limited surface parking)

Approx. 42 acres of surface parking and access



- 90% of all open space is covered with pavement.
- Green space within the parking fields is merely leftover space providing minimal benefit (i.e. shade, spatial definition, screening, etc). (see image B)
- Parking lots are individual to each development with minimal interconnection forcing traffic to use only main roads.
- Parking is unshared between properties requiring larger parking lots only devoted to its individual development. (see image C)
- Parking lots are largely unscreened. (see image A)
- Most parking is surface lots requiring the most land coverage.
- Large surface parking fields contribute to the lack of linkage between developments limiting pedestrian interconnection.

Conclusions

- Large parking fields contribute to the visual sprawl and physical separation of buildings and uses, limiting pedestrian interconnection.
- Large distances between uses to accommodate individual parking fields and roadways contribute to the lack of community, neighborhood or of a cohesive urban center.
- Expansive amounts of impervious paved areas increases chemical runoff, and dramatically reduces water quality in the region.

LEGEND:

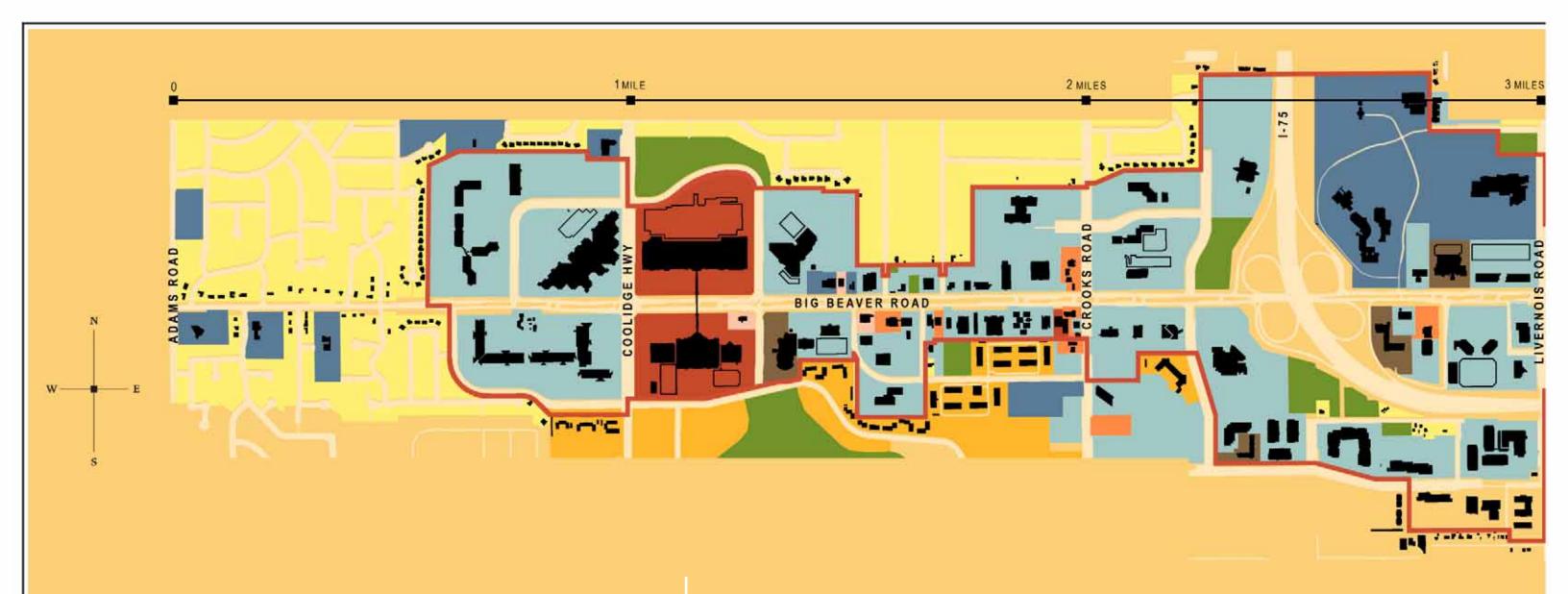
DDA Boundary

Parking Decks

Parking Fields (including internal and access circulation)

Building Masses

Public Roadways



General Land Use

Autonomous and independent variety of single use parcels



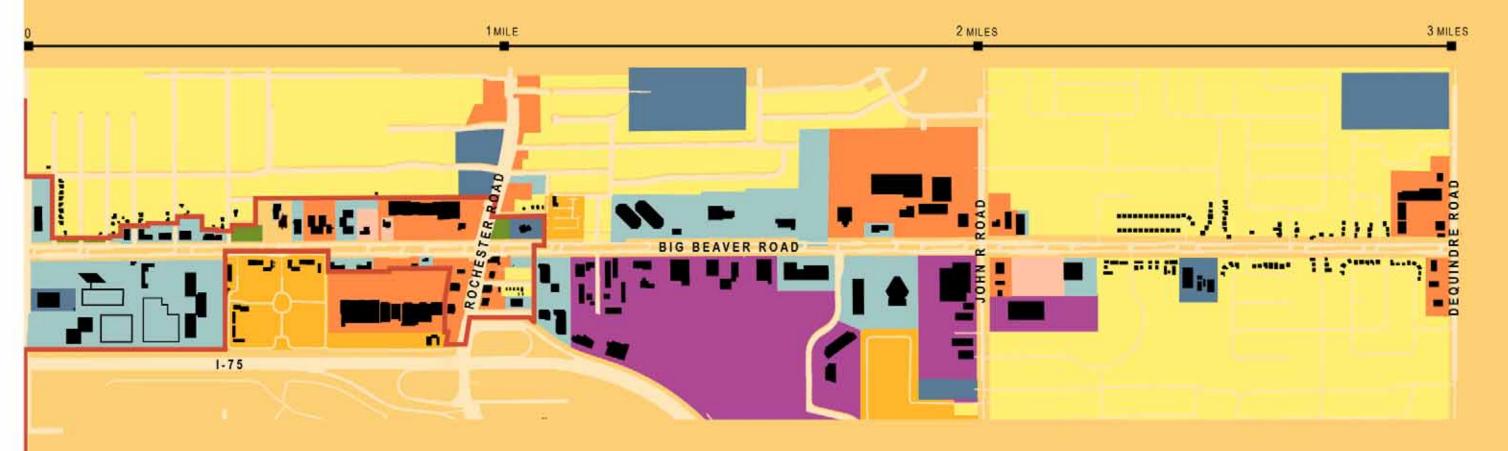






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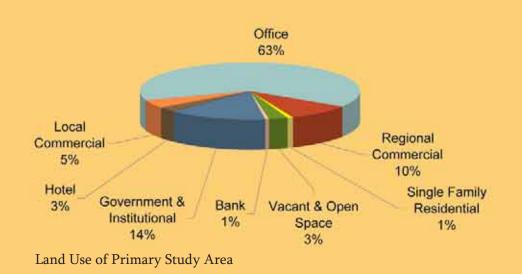
D



- The Big Beaver Corridor study area contains a mixture of land uses including office, regional and local commercial, public, institutional, light industrial, and residential, that have been developed as independent sites bearing little or no relation to each other.
- The primary study area is predominantly comprised of medical and professional offices, with approximately 64% of the total land area within the DDA District utilized for office uses ranging from single-story and low-rise individual buildings to much larger, mid and high-rise buildings and complexes offering first-class office space. (see Image A)
- Limited suburban strip commercial exists within the primary study area at the intersections of Big Beaver with Crooks and Rochester Roads, as well as several hotels, and a significant amount of regional commercial space within the Somerset Collection. Hotels and local and regional commercial uses comprise approximately 18% of the total land area within the DDA District. (see Image B)
- Residential uses are limited within the Corridor and are mainly located outside of the primary study area.
- A significant amount of underutilized land exists within the Corridor (e.g., large surface parking areas, single family residential lots, and vacant properties). (see images C and D)

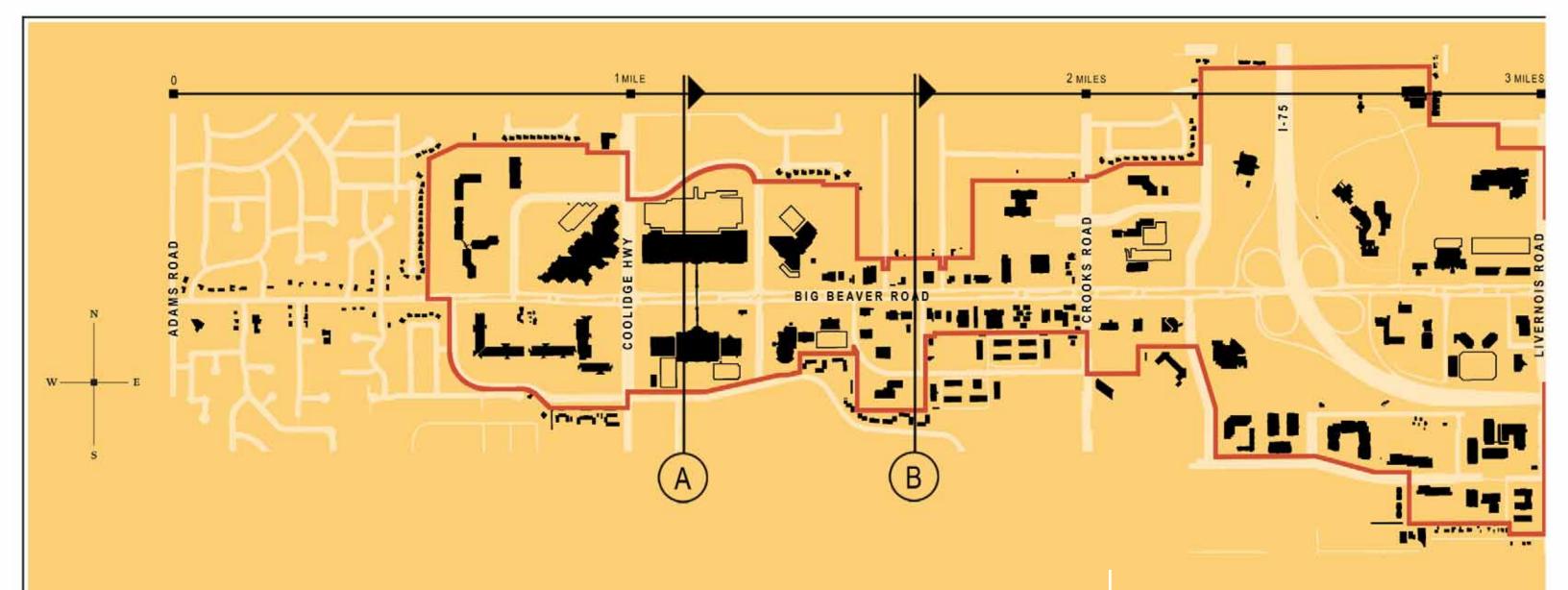
Conclusions

- The Big Beaver Corridor presents immense opportunities for development and redevelopment.
- Residential land uses and changes in the pattern and form of development within the primary study area will be key to the success of Big Beaver as a mixed use urban center.



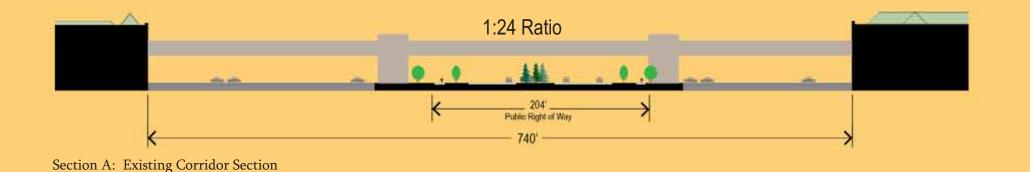
LEGEND:

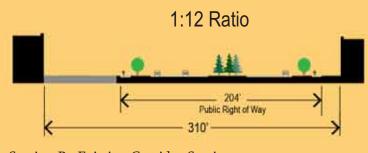




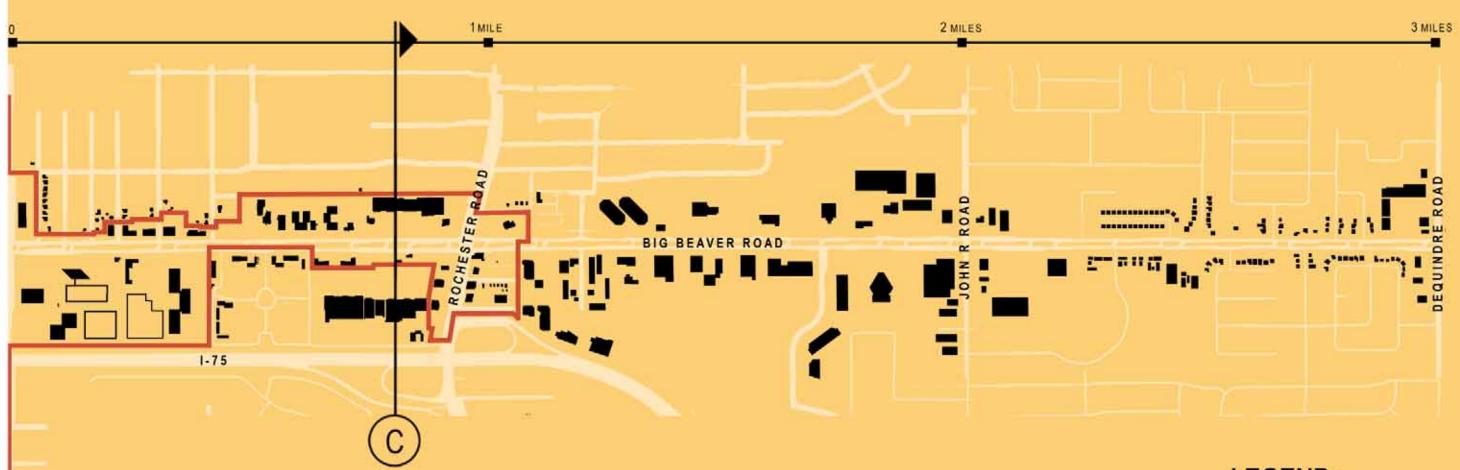
Buildings and the Public Space

Building height, volume and placement reinforce the Corridor's open, unconnected suburban style space





Section B: Existing Corridor Section



- Building massing contributes to street definition by establishing where the edges are. The Corridor lacks or has varying degrees of definition exceeding human comfort scale.
- The Corridor's sense of definition is several times larger than ideal human scale, the ideal being 1 vertical to 4 horizontal.
- The large spacing between buildings also contribute to the Corridor's lack of definition, allowing space to "bleed out."

Conclusions

- Corridor massing defines a suburban placement of isolated, individual properties along a thoroughfare axis.
- Edges that define human scaled space and create harmonious proportion are largely unclear.



Cross Section of a World Class Boulevard

This cross section defines two important aspects of public space which will be advocated as part of the world class boulevard strategy.

- 1. A redesigned street system (boulevard style) within the existing 204' Right-of-Way, incorporating formalized tree plantings dividing drive lanes from access and parking lanes, and the sidewalk.
- 2. Multi-storied buildings close to the sidewalk, along with tree plantings at the curb, create a an appropriate scaled space for pedestrians.

This boulevard cross section and the public space it creates is a dramatic departure from the Corridor's existing cross sections shown to the left.

